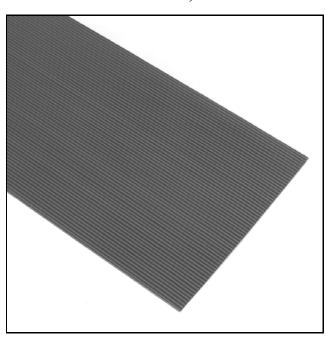
.050" 28 AWG Stranded, PVC

3319 Series



- Flex life of 100 million cycles at 1 3/4 inch diameter
- 19 strands of high strength copper alloy provide the longest flex life available for dynamic applications
- 28 AWG wire on .050 inch wire spacing permits mass termination to a broad line of IDC connectors
- Zippable for branching or discrete termination
- RoHS\* Compliant

Date Modified: January 17, 2005

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# **Physical**

Insulation

Material: Polyvinyl Chloride (PVC)

Color: Black

Marking:

Standard: None

Canadian Option: ALAWM 2651 105C 300V VW1 3M NU

CRIAWM IA 105C 300V FT1

EU <50V

**Conductors:** 28 AWG  $19 \times 40$  [  $19 \times 0.079$  ] Silver Plated Stranded Copper Alloy (89% Conductivity)

### **Electrical**

Voltage Rating: USA: 300V Canada: 300V EU: <50V

**Insulation Resistance:** >1 x  $10^{10} \Omega / 10$ ft [3m]

Unbalanced Balanced

Characteristic Impedance:  $103 \Omega$  171  $\Omega$ 

 $\begin{array}{cccc} \textbf{Capacitance:} & 13.6 \text{ pF/ft } (44.62 \text{ pF/m}) & 7.9 \text{ pF/ft } (25.91 \text{ pF/m}) \\ \textbf{Inductance:} & 15 \text{ } \mu\text{H/ft } (0.49 \text{ } \mu\text{H/m}) & .23 \text{ } \mu\text{H/ft } (_0.\text{\'y}f \text{ } \mu\text{H/m}) \\ \textbf{Propagation Delay:} & 1.40 \text{ ns/ft } (4.59 \text{ ns/m}) & 1.35 \text{ ns/ft } (4.43 \text{ ns/m}) \\ \end{array}$ 

**Velocity of Propagation:** 73% 75%

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal conductors within a pair.

### **Environmental**

**Temperature Rating:** -20°C to +105°C

Flammability Rating: USA: VW-1 Canada: FT1

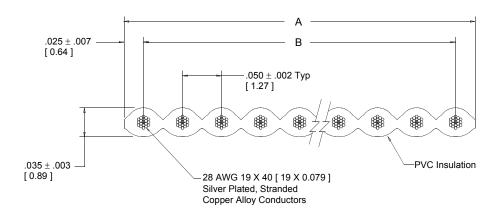
RoHS = Directive 2002/95/EC,

 $Restriction \ of \ the \ Use \ of \ Certain \ Hazardous \ Substances \ in \ Electrical \ and \ Electronic \ Equipment$ 

3M

UL File No.: E42769, Style No.: 2651

Number of Conductors	3M Part Number	Dimension A	Dimension B
09	3319/09	0.450 ± .010 [ 11.43 ]	0.400 ± .007 [ 10.18 ]
10	3319/10	0.500 ± .010 [ 12.70 ]	0.450 ± .007 [ 11.43 ]
14	3319/14	0.700 ± .010 [ 17.78 ]	0.650 ± .007 [ 16.51 ]
15	3319/15	0.750 ± .010 [ 19.05 ]	0.700 ± .007 [ 17.78 ]
16	3319/16	0.800 ± .015 [ 20.32 ]	0.750 ± .011 [ 19.05 ]
20	3319/20	1.000 ± .015 [ 25.40 ]	0.950 ± .011 [ 24.13 ]
24	3319/24	1.200 ± .015 [ 30.48 ]	1.150 ± .011 [ 29.21 ]
25	3319/25	1.250 ± .015 [ 31.75 ]	1.200 ± .011 [ 30.48 ]
26	3319/26	1.300 ± .015 [ 33.02 ]	1.250 ± .011 [ 31.75 ]
30	3319/30	1.500 ± .020 [ 38.10 ]	1.450 ± .015 [ 36.83 ]
34	3319/34	1.700 ± .020 [ 43.18 ]	1.650 ± .015 [ 41.91 ]
36	3319/36	1.800 ± .020 [ 45.72 ]	1.750 ± .015 [ 44.45 ]
37	3319/37	1.850 ± .020 [ 46.99 ]	1.800 ± .015 [ 45.72 ]
40	3319/40	2.000 ± .020 [ 50.80 ]	1.950 ± .015 [ 49.53 ]
50	3319/50	2.500 ± .020 [ 63.50 ]	2.450 ± .015 [ 62.23 ]
60	3319/60	3.000 ± .020 [ 76.20 ]	2.950 ± .015 [ 74.93 ]
64	3319/64	3.200 ± .020 [ 81.28 ]	3.150 ± .015 [ 80.01 ]



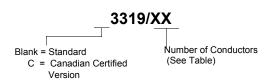


Inch

[111111]					
Tolerance Unless Noted					
.0	.00	.000			
±.1	±.01	±.005			
	ance U .0 ±.1	.0 .00			

[] Dimensions for Reference  $O\,n\,ly$ 

## Note: Red marking on one edge of cable designates wire #1. **Ordering Information**



Note: Standard lengths of 100 foot and 300 foot rolls are available. Please specify when ordering.

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#### **Important Notice**

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